

ABSTRACT

An amplitude controller for adjusting the amplitude of a radio-frequency signal, the amplitude controller includes elements for splitting (302A) an amplitude adjustment input signal into one or more signal pairs, each signal pair having two partial signals, elements for generating (302B) an inverse-phase-sized phase difference between the partial signals of each signal pair, elements for adjusting (302C, 302D, 302F) the amplitudes of the partial signals of each signal pair by employing the mutual magnitude of the amplitudes of the partial signals as the factor controlling the adjustment, and elements for summing up (302E) the partial inverse-phased and amplitude-adjusted signals as an output signal.